

Arjun K. Gupta
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Elliptically Contoured Models in Statistics and Portfolio Theory

Second Edition

 Springer

Elliptically Contoured Models In Statistics

George A. F. Seber



Elliptically Contoured Models In Statistics:

Elliptically Contoured Models in Statistics and Portfolio Theory Arjun K. Gupta, Tamas Varga, Taras Bodnar, 2013-09-07 Elliptically Contoured Models in Statistics and Portfolio Theory fully revises the first detailed introduction to the theory of matrix variate elliptically contoured distributions. There are two additional chapters and all the original chapters of this classic text have been updated. Resources in this book will be valuable for researchers, practitioners, and graduate students in statistics and related fields of finance and engineering. Those interested in multivariate statistical analysis and its application to portfolio theory will find this text immediately useful. In multivariate statistical analysis, elliptical distributions have recently provided an alternative to the normal model. Elliptical distributions have also increased their popularity in finance because of the ability to model heavy tails usually observed in real data. Most of the work, however, is spread out in journals throughout the world and is not easily accessible to the investigators. A noteworthy function of this book is the collection of the most important results on the theory of matrix variate elliptically contoured distributions that were previously only available in the journal-based literature. The content is organized in a unified manner that can serve as a valuable introduction to the subject.

Elliptically Contoured Models in Statistics Arjun K. Gupta, Tamas Varga, 1993-01-31 **Elliptically Contoured Models in Statistics** Arjun K. Gupta, Tamas Varga, 2012-12-06 In multivariate statistical analysis, elliptical distributions have recently provided an alternative to the normal model. Most of the work, however, is spread out in journals throughout the world and is not easily accessible to the investigators. Fang, Kotz, and Ng presented a systematic study of multivariate elliptical distributions; however, they did not discuss the matrix variate case. Recently, Fang and Zhang have summarized the results of generalized multivariate analysis, which include vector as well as the matrix variate distributions. On the other hand, Fang and Anderson collected research papers on matrix variate elliptical distributions, many of them published for the first time in English. They published very rich material on the topic, but the results are given in paper form, which does not provide a unified treatment of the theory. Therefore, it seemed appropriate to collect the most important results on the theory of matrix variate elliptically contoured distributions available in the literature and organize them in a unified manner that can serve as an introduction to the subject. The book will be useful for researchers, teachers, and graduate students in statistics and related fields whose interests involve multivariate statistical analysis. Parts of this book were presented by Arjun K. Gupta as a one-semester course at Bowling Green State University. Some new results have also been included, which generalize the results in Fang and Zhang. Knowledge of matrix algebra and statistics at the level of Anderson is assumed. However, Chapter 1 summarizes some results of matrix algebra.

Statistical Inference for Models with Multivariate t-Distributed Errors A. K. Md. Ehsanes Saleh, Mohammad Arashi, S. M. M. Tabatabaey, 2014-10-01 This book summarizes the results of various models under normal theory with a brief review of the literature. *Statistical Inference for Models with Multivariate t-Distributed Errors* Includes a wide array of applications for the

analysis of multivariate observations Emphasizes the development of linear statistical models with applications to engineering the physical sciences and mathematics Contains an up to date bibliography featuring the latest trends and advances in the field to provide a collective source for research on the topic Addresses linear regression models with non normal errors with practical real world examples Uniquely addresses regression models in Student's t distributed errors and t models Supplemented with an Instructor's Solutions Manual which is available via written request by the Publisher

Multidimensional Statistical Analysis and Theory of Random Matrices A. K. Gupta, V. L. Girko, 2019-01-14 No detailed description available for Multidimensional Statistical Analysis and Theory of Random Matrices

Skew-Normal Model Theories and Their Applications Rendao Ye, Wenyan Zhu, Yue Qi, Kun Luo, 2024-11-08 The book focuses on several skew normal mixed effects models and systematically explores statistical inference theories methods and applications of parameters of interest This book is of academic value as it helps to establish a series of statistical inference theories and methods for skew normal mixed effects models On the applications side it provides efficient methods and tools for practical data analysis in various fields including economics finance biology and medical science

Encyclopedia of Statistical Sciences, Volume 3, 2005-12-16 Countless professionals and students who use statistics in their work rely on the multi volume Encyclopedia of Statistical Sciences as a superior and unique source of information on statistical theory methods and applications This new edition available in both print and on line versions is designed to bring the encyclopedia in line with the latest topics and advances made in statistical science over the past decade in areas such as computer intensive statistical methodology genetics medicine the environment and other applications Written by over 600 world renowned experts including the editors the entries are self contained and easily understood by readers with a limited statistical background With the publication of this second edition in 16 printed volumes the Encyclopedia of Statistical Sciences retains its position as a cutting edge reference of choice for those working in statistics biostatistics quality control economics sociology engineering probability theory computer science biomedicine psychology and many other areas

Statistical Analysis of Graph Structures in Random Variable Networks V. A. Kalyagin, A. P. Koldanov, P. A. Koldanov, P. M. Pardalos, 2020-12-05 This book studies complex systems with elements represented by random variables Its main goal is to study and compare uncertainty of algorithms of network structure identification with applications to market network analysis For this a mathematical model of random variable network is introduced uncertainty of identification procedure is defined through a risk function random variables networks with different measures of similarity dependence are discussed and general statistical properties of identification algorithms are studied The volume also introduces a new class of identification algorithms based on a new measure of similarity and prove its robustness in a large class of distributions and presents applications to social networks power transmission grids telecommunication networks stock market networks and brain networks through a theoretical analysis that identifies network structures Both researchers and graduate students in

computer science mathematics and optimization will find the applications and techniques presented useful

Encyclopaedia of Mathematics Michiel Hazewinkel, 2012-12-06 This is the second supplementary volume to Kluwer's highly acclaimed eleven volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available

A Matrix Handbook for Statisticians George A. F. Seber, 2008-01-28 A comprehensive must have handbook of matrix methods with a unique emphasis on statistical applications This timely book A Matrix Handbook for Statisticians provides a comprehensive encyclopedic treatment of matrices as they relate to both statistical concepts and methodologies Written by an experienced authority on matrices and statistical theory this handbook is organized by topic rather than mathematical developments and includes numerous references to both the theory behind the methods and the applications of the methods A uniform approach is applied to each chapter which contains four parts a definition followed by a list of results a short list of references to related topics in the book one or more references to proofs and references to applications The use of extensive cross referencing to topics within the book and external referencing to proofs allows for definitions to be located easily as well as interrelationships among subject areas to be recognized A Matrix Handbook for Statisticians addresses the need for matrix theory topics to be presented together in one book and features a collection of topics not found elsewhere under one cover These topics include Complex matrices A wide range of special matrices and their properties Special products and operators such as the Kronecker product Partitioned and patterned matrices Matrix analysis and approximation Matrix optimization Majorization Random vectors and matrices Inequalities such as probabilistic inequalities Additional topics such as rank eigenvalues determinants norms generalized inverses linear and quadratic equations differentiation and Jacobians are also included The book assumes a fundamental knowledge of vectors and matrices maintains a reasonable level of abstraction when appropriate and provides a comprehensive compendium of linear algebra results with use or potential use in statistics A Matrix Handbook for Statisticians is an essential one of a kind book for graduate level courses in advanced statistical studies including linear and nonlinear models multivariate analysis and statistical computing It also serves as an excellent self study guide for statistical researchers

Statistical Models for Data Analysis Paolo Giudici, Salvatore Ingrassia, Maurizio Vichi, 2013-07-01 The papers in this book cover issues related to the development of novel statistical models for the analysis of data They offer solutions for relevant problems in statistical data analysis and contain the explicit derivation of the proposed models as well as their implementation The book assembles the selected and refereed proceedings of the biannual conference of the Italian Classification and Data Analysis Group CLADAG a section of the Italian Statistical Society

Contemporary Multivariate Analysis And Design Of Experiments: In Celebration

Of Prof Kai-tai Fang's 65th Birthday Jianqing Fan, Gang Li, 2005-03-22 This book furthers new and exciting developments in experimental designs multivariate analysis biostatistics model selection and related subjects It features articles contributed by many prominent and active figures in their fields These articles cover a wide array of important issues in modern statistical theory methods and their applications Distinctive features of the collections of articles are their coherence and advance in knowledge discoveries

Statistical Theory and Inference David J. Olive, 2014-05-07 This text is for a one semester graduate course in statistical theory and covers minimal and complete sufficient statistics maximum likelihood estimators method of moments bias and mean square error uniform minimum variance estimators and the Cramer Rao lower bound an introduction to large sample theory likelihood ratio tests and uniformly most powerful tests and the Neyman Pearson Lemma A major goal of this text is to make these topics much more accessible to students by using the theory of exponential families Exponential families indicator functions and the support of the distribution are used throughout the text to simplify the theory More than 50 brand name distributions are used to illustrate the theory with many examples of exponential families maximum likelihood estimators and uniformly minimum variance unbiased estimators There are many homework problems with over 30 pages of solutions

A First Course in Linear Model Theory Nalini Ravishanker, Zhiyi Chi, Dipak K. Dey, 2021-10-18 Thoroughly updated throughout A First Course in Linear Model Theory Second Edition is an intermediate level statistics text that fills an important gap by presenting the theory of linear statistical models at a level appropriate for senior undergraduate or first year graduate students With an innovative approach the authors introduce to students the mathematical and statistical concepts and tools that form a foundation for studying the theory and applications of both univariate and multivariate linear models In addition to adding R functionality this second edition features three new chapters and several sections on new topics that are extremely relevant to the current research in statistical methodology Revised or expanded topics include linear fixed random and mixed effects models generalized linear models Bayesian and hierarchical linear models model selection multiple comparisons and regularized and robust regression New to the Second Edition Coverage of inference for linear models has been expanded into two chapters Expanded coverage of multiple comparisons random and mixed effects models model selection and missing data A new chapter on generalized linear models Chapter 12 A new section on multivariate linear models in Chapter 13 and expanded coverage of the Bayesian linear models and longitudinal models A new section on regularized regression in Chapter 14 Detailed data illustrations using R The authors fresh approach methodical presentation wealth of examples use of R and introduction to topics beyond the classical theory set this book apart from other texts on linear models It forms a refreshing and invaluable first step in students study of advanced linear models generalized linear models nonlinear models and dynamic models

Matrix Variate Distributions A K Gupta, D K Nagar, 2018-05-02 Useful in physics economics psychology and other fields random matrices play an important role in the study of multivariate statistical methods Until now however most of the material on random

matrices could only be found scattered in various statistical journals Matrix Variate Distributions gathers and systematically presents most of the recent developments in continuous matrix variate distribution theory and includes new results After a review of the essential background material the authors investigate the range of matrix variate distributions including matrix variate normal distribution Wishart distribution Matrix variate t distribution Matrix variate beta distribution F distribution Matrix variate Dirichlet distribution Matrix quadratic forms With its inclusion of new results Matrix Variate Distributions promises to stimulate further research and help advance the field of multivariate statistical analysis

Limit Theory for Mixing Dependent Random Variables Lin Zhengyan, Lu Chuanrong, 1997-07-31 For many practical problems observations are not independent In this book limit behaviour of an important kind of dependent random variables the so called mixing random variables is studied Many profound results are given which cover recent developments in this subject such as basic properties of mixing variables powerful probability and moment inequalities weak convergence and strong convergence approximation limit behaviour of some statistics with a mixing sample and many useful tools are provided Audience This volume will be of interest to researchers and graduate students in the field of probability and statistics whose work involves dependent data variables

Linear Models and Time-Series Analysis Marc S. Paoletta, 2018-12-17 A comprehensive and timely edition on an emerging new trend in time series Linear Models and Time Series Analysis Regression ANOVA ARMA and GARCH sets a strong foundation in terms of distribution theory for the linear model regression and ANOVA univariate time series analysis ARMAX and GARCH and some multivariate models associated primarily with modeling financial asset returns copula based structures and the discrete mixed normal and Laplace It builds on the author's previous book Fundamental Statistical Inference A Computational Approach which introduced the major concepts of statistical inference Attention is explicitly paid to application and numeric computation with examples of Matlab code throughout The code offers a framework for discussion and illustration of numerics and shows the mapping from theory to computation The topic of time series analysis is on firm footing with numerous textbooks and research journals dedicated to it With respect to the subject technology many chapters in Linear Models and Time Series Analysis cover firmly entrenched topics regression and ARMA Several others are dedicated to very modern methods as used in empirical finance asset pricing risk management and portfolio optimization in order to address the severe change in performance of many pension funds and changes in how fund managers work Covers traditional time series analysis with new guidelines Provides access to cutting edge topics that are at the forefront of financial econometrics and industry Includes latest developments and topics such as financial returns data notably also in a multivariate context Written by a leading expert in time series analysis Extensively classroom tested Includes a tutorial on SAS Supplemented with a companion website containing numerous Matlab programs Solutions to most exercises are provided in the book Linear Models and Time Series Analysis Regression ANOVA ARMA and GARCH is suitable for advanced masters students in statistics and quantitative finance as well as doctoral students in economics and finance It

is also useful for quantitative financial practitioners in large financial institutions and smaller finance outlets

Model-Based Clustering and Classification for Data Science Charles Bouveyron, Gilles Celeux, T. Brendan Murphy, Adrian E. Raftery, 2019-07-25 Cluster analysis finds groups in data automatically. Most methods have been heuristic and leave open such central questions as how many clusters are there. Which method should I use? How should I handle outliers? Classification assigns new observations to groups given previously classified observations and also has open questions about parameter tuning, robustness, and uncertainty assessment. This book frames cluster analysis and classification in terms of statistical models, thus yielding principled estimation, testing, and prediction methods and sound answers to the central questions. It builds the basic ideas in an accessible but rigorous way with extensive data examples and R code. It describes modern approaches to high dimensional data and networks and explains such recent advances as Bayesian regularization, non-Gaussian model-based clustering, cluster merging, variable selection, semi-supervised and robust classification, clustering of functional data, text and images, and co-clustering. Written for advanced undergraduates in data science as well as researchers and practitioners, it assumes basic knowledge of multivariate calculus, linear algebra, probability, and statistics.

Geometric Sums: Bounds for Rare Events with Applications Vladimir V. Kalashnikov, 2013-04-17 This book reviews problems associated with rare events arising in a wide range of circumstances, treating such topics as how to evaluate the probability an insurance company will be bankrupted, the lifetime of a redundant system, and the waiting time in a queue. Well-grounded, unique mathematical evaluation methods of basic probability characteristics concerned with rare events are presented, which can be employed in real applications, as the volume also contains relevant numerical and Monte Carlo methods. The various examples, tables, figures, and algorithms will also be appreciated. Audience: This work will be useful to graduate students, researchers, and specialists interested in applied probability, simulation, and operations research.

Identification of Dynamical Systems with Small Noise Yury A. Kutoyants, 2012-12-06 Small noise is a good noise. In this work we are interested in the problems of estimation theory concerned with observations of the diffusion type process X_t on $[0, T]$ where W is a standard Wiener process and S_t is some nonanticipative smooth t function. By the observations X_t on $[0, T]$ of this process we will solve some of the problems of identification, both parametric and nonparametric. If the trend S is known up to the value of some finite dimensional parameter $S_t = S_t(x)$ where $E e^{c|S_t|} < \infty$ then we have a parametric case. The nonparametric problems arise if we know only the degree of smoothness of the function S_t on $[0, T]$ with respect to time t . It is supposed that the diffusion coefficient c is always known. In the parametric case we describe the asymptotical properties of maximum likelihood (MLE), Bayes (BE), and minimum distance (MDE) estimators as $c \rightarrow 0$, and in the nonparametric situation we investigate some kernel type estimators of unknown functions S_t on $[0, T]$. The asymptotic in such problems of estimation for this scheme of observations was usually considered as $T \rightarrow \infty$ because this limit is a direct analog to the traditional limit $n \rightarrow \infty$ in the classical mathematical statistics of $i.i.d.$ observations. The limit $c \rightarrow 0$ in $[0, 1]$ is interesting for the following reasons:

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Table of Contents Elliptically Contoured Models In Statistics

1. Understanding the eBook Elliptically Contoured Models In Statistics
 - The Rise of Digital Reading Elliptically Contoured Models In Statistics
 - Advantages of eBooks Over Traditional Books
2. Identifying Elliptically Contoured Models In Statistics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elliptically Contoured Models In Statistics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elliptically Contoured Models In Statistics
 - Personalized Recommendations

- Elliptically Contoured Models In Statistics User Reviews and Ratings
- Elliptically Contoured Models In Statistics and Bestseller Lists
- 5. Accessing Elliptically Contoured Models In Statistics Free and Paid eBooks
 - Elliptically Contoured Models In Statistics Public Domain eBooks
 - Elliptically Contoured Models In Statistics eBook Subscription Services
 - Elliptically Contoured Models In Statistics Budget-Friendly Options
- 6. Navigating Elliptically Contoured Models In Statistics eBook Formats
 - ePub, PDF, MOBI, and More
 - Elliptically Contoured Models In Statistics Compatibility with Devices
 - Elliptically Contoured Models In Statistics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elliptically Contoured Models In Statistics
 - Highlighting and Note-Taking Elliptically Contoured Models In Statistics
 - Interactive Elements Elliptically Contoured Models In Statistics
- 8. Staying Engaged with Elliptically Contoured Models In Statistics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elliptically Contoured Models In Statistics
- 9. Balancing eBooks and Physical Books Elliptically Contoured Models In Statistics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elliptically Contoured Models In Statistics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Elliptically Contoured Models In Statistics
 - Setting Reading Goals Elliptically Contoured Models In Statistics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elliptically Contoured Models In Statistics
 - Fact-Checking eBook Content of Elliptically Contoured Models In Statistics

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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